

CLAIMS

What is claimed is:

1. A process for subterranean waste disposal and processing within a sealed earthen chamber, said process comprising the steps of:
 - 1) providing a sealed, empty, subterranean, earthen chamber;
 - 2) providing a waste receiving and processing system, said waste receiving and processing system comprising a series of building and plants in operative communication with one another and a series of pipes operatively connecting said buildings and plants of the waste receiving and processing system to said subterranean earthen chamber,
said waste receiving and processing system having:
 - a) a waste receiving and mechanical processing plant,
 - b) a pumping plant,
 - c) a redox plant, and
 - d) an equipment housing building.

2. The process for subterranean waste disposal and processing within a sealed earthen chamber, as in claim 1, further comprising the steps of receiving and mechanically pulverizing waste and treating said waste such that it is transformed into slurry.

3. The process for subterranean waste disposal and processing within a sealed earthen chamber of claim 2, further comprising the steps of providing said pumping plant with an inlet conduit coupling said pumping plant to said earthen chamber and pumping treated slurry into said earthen chamber.

4. The process for subterranean waste disposal and processing within a sealed earthen chamber of claim 3, further comprising the steps of delivering excess slurry from said pumping plant to said redox plant and storing said treated slurry in said redox plant.

5. The process for subterranean waste disposal and processing within a sealed earthen chamber of claim 4, further comprising the step of providing said equipment housing building with:

a) a ventilation conduit,

- b) a specimen collection conduit
- c) an electronic monitoring pipe,
- d) a displaceable chamber extraction conduit, said chamber extraction conduit having displacement means connected thereto for vertical displacement of said chamber extraction conduit, and
- e) a gas-burning electricity generating subsystem.

6. The process for subterranean waste disposal and processing within a sealed earthen chamber, as in claim 5, said step further comprising obtaining solid specimen of said treated slurry via said specimen collection conduit.

7. The process for subterranean waste disposal and processing within a sealed earthen chamber as in claim 6, said step further comprising electronically monitoring waste products within said earthen chamber with said electrical monitoring pipe.

8. The process for subterranean waste disposal and processing within a sealed earthen chamber of claim 7, said step further comprises vertically displacing said chamber extracting conduit and obtaining gaseous

samples at different levels within said earthen chamber.

9. The process for subterranean waste disposal and processing within a sealed earthen chamber of claim 8, said step further comprising providing a spent oil well for said earthen chamber.

10. The process for subterranean waste disposal and processing within a sealed earthen chamber as in claim 9, wherein said step further comprises burning methane gas for the production of electricity via said gas-burning electricity generating subsystem.

11. A system for subterranean waste disposal and processing within a sealed earthen chamber, said system comprising:

- 1) a sealed, empty, subterranean, earthen chamber;
- 2) a waste receiving and processing system, said waste receiving and processing system comprising a series of building and plants in operative communication with one another and a series of pipes operatively connecting said buildings and plants of the

waste receiving and processing system to said
subterranean earthen chamber,

said waste receiving and processing system
having:

- a) a waste receiving and mechanical processing
plant,
- b) a pumping plant,
- c) a redox plant, and
- d) an equipment housing building.

12. The system for subterranean waste disposal and
processing within a sealed earthen chamber, as in claim
11, wherein said equipment housing building comprises:

- a) a ventilation conduit,
- b) a specimen collection conduit
- c) an electronic monitoring pipe,
- d) a displaceable chamber extraction conduit, said
chamber extraction conduit having displacement means
connected thereto for vertical displacement of said
chamber extraction conduit, and
- e) a gas-burning electricity generating subsystem.

13. The system for subterranean waste disposal and processing within a sealed earthen chamber, as in claim 12, wherein said earthen chamber is a spent oil well.